

QUESTIONS ... QUESTIONS

Why does our headline read "Questions ... Questions"? That's a good question.

It seems that the more time one spends with computers and computer users, the more questions, and the greater variety of questions, one hears.

For the last four years we have attempted to answer your questions either by phone or through our "In Response" column. Most of the questions asked we were able to answer quickly; others took a while.

We don't have all the answers all the time and it can become frustrating to the person who needs an answer quickly. In fact, most of the phone calls we receive are from members who are at their Kaypros and want the answer NOW. We certainly try to help, but usually the calls we receive are made after the dealer has been called but cannot help.

Not all questions can be answered quickly, if at all. Therefore we have started putting your letters with questions and problems in our "Box 100" column.

The reason we mention this is because we have been receiving letters with the question "When you print the questions in Box 100, why don't you answer them?"

For that, we do have an answer.

There are many reasons why KUG has been successful. One of them is because KUGGERS are always there to help other KUGGERS. What better way to get you to meet other Kaypro users than to ask you to write to the author of the letter?

We have received copies of letters answering questions that were sent to the member with a problem. Many of these have been published in the KUGRAM.

We have also found that the answers to many questions and problems sent in are received quickly, much more quickly than having to wait for the next issue.

Of course there are times when our members tell us they cannot find suppliers of a piece of software. We try to track them down and when we do, we let you know where they are. (See Where's Thorn EMI?)

And there are the ongoing questions ... What's going to happen to CP/M? ... Is KUG going to continue to support the original bundled software? ... What are you going to do for the new Kaypro MS-DOS users?

We can answer these questions right now.

As for CP/M, it will be here for quite a while. You will soon see it become a very important part of the home computer market and new software will be more readily available.

KUG's support for the Perfect series and the other bundled software is continuing and WILL continue as long as you feel it is needed.

About the new DOS: Well, we have been writing about MS-DOS for quite some time now. (See MS-DOS Stuff.) Our MS-DOS Library is growing and more articles are coming in from members. (See Kaypro 2000 Hints.)

Your questions are important. Your answers are equally important. So ... keep 'em comin' !

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NOTE: All funds are U.S. The term SASE refers to self-addressed, stamped business-sized (#10) envelope. Unless otherwise stated, affix 22¢ postage. When ordering, give the name and number of the disk(s) you want and your ID#. Send your requests to KUG, Inc., Box 100, Malverne, NY 11565.

Dear KUG,

Re: letter from M.S. Smith in Vol.4, no. 2:

The problem with the ribbon "turning down" on the Juki 6100 seems to be a reflection of the ribbon being used. Typically, I find the problem only on inexpensive correctable single-strike (orange spool) ribbons. I have not found the same problem on a good quality multi-strike (blue spool) ribbon.

The multi-strike ribbon is also a cleaner printing ribbon. Since it is designed for multi-strike, it does not drop carbon into the printer and on to the print mechanism. This means a cleaner machine and therefore fewer breakdowns. The multi-strike ribbon is usually 2 to 2.5 times more expensive, but it will last about 3 times longer.

It is also helpful, as you have probably found out, to advance the ribbon manually, but before you put it on the printer. By advancing the ribbon before you put it on the printer, it ensures that the ribbon gets a proper start onto the receiving spool.

Curtis Bailey
Dataworld Inc.
11121 N. Rodney Parham
Little Rock, AR 72212

Dear KUG,

A recent request in KUGRAM concerned the Juki 6100's tendency to cut off every third ascender due to ribbon folding.

I haven't licked this problem completely, but I'm having much better luck with Burroughs ribbons. I use B81 (lavender leader) or the corresponding sky-blue leader. I don't switch brands anymore, and I don't buy "correctable" ribbons any more, even if they are cheaper.

These changes have minimized my problem and should help other readers. With good ribbons, I can again recommend the Juki.

Dave Cundiff
3306 Race Street
Philadelphia, PA 19104

Dear KUG,

To J.C. Simon, (KUGRAM 4:1, p. 3): Insert a style change after @ newpage.

@ newpage
@ style (spacing 1 line)
@ center (etc...)

That should fix it.

Langley Wood
Lexington Apts. 18, 2455 Rivermont Avenue
Lynchburg, VA 24503

Dear KUG,

In response to Donald G. Kettner's letter in a recent KUGRAM about **Perfect Calc** and setting up the printer, there is an easier way to do what he wants. Use the program PCONFIG to set up a Printer Initialization String, which **Perfect Calc** will then send to the printer whenever you print a spreadsheet or part of it. I set mine up to send the code to put my printer into compressed print mode, and I set up the Printer Reset String to put the printer back into normal mode after the spreadsheet is printed. This beats setting up a separate EX command file for each spreadsheet and having **MBasic** on the disk with **Perfect Calc**.

I have not used a keyboard definition program with **PC**, although I have the **Plu*Perfect BackGrounder** program which would enable me to do so. Maybe I'll try it.

Also, regarding Adolph Amster's problem with **SmartKey** and **CP/M 2.2E**: Newer versions of **CP/M 2.2E** have a feature whereby you can turn off the interrupts. The back of the new manual has a section describing how to do this. You can upgrade to the latest version of **CP/M 2.2E** and **Plu*Perfect Writer**, if you have it, by sending your original master diskette (make a backup copy first!) and \$5 to **Plu*Perfect Systems**. You will get a new diskette and a new manual, which is a pretty good deal for only \$5.

The manual also lists a technical note on using **SmartKey** with **Plu*Perfect Writer**. Send a legal-size self-addressed stamped envelope to get it.

Wm. Meacham
1004 Elm Street
Austin, TX 78703

Dear KUG,

Thanks for the excellent editorial in the March-April edition. I was beginning to feel very uncomfortable with my **CP/M 2-84**. It is only two years old, but with the new **MS-DOS** systems, I hated to buy any new software for **C/PM**. Why spend the money on an out-of-date system?

Your article really encouraged me to keep my system and enjoy it. I'll think about a new system once the industry gets standardized. Thanks for encouraging those of us who can't run out and buy a new machine every time some improvement is made.

David Vohar
R.F.D. 1, Box 3420
New Vineyard, ME 04956

Dear KUG,

In all the issues of KUGRAM, I have never seen this stunt mentioned: When my **Gemini Star** printer is working with **Perfect Printer**, the disk drive keeps running. Although **Plu*Perfect** stops it, I no longer use **Plu*Perfect**. So, one day I hit the space bar while printing with **Perfect Printer**, and I discovered that the disk drive stops and waits. If it starts up again, another touch stops it. So it is not necessary to have the drive running while printing. You do not need any fancy program to keep it from running.

Julius C. Ward
11 West Belmont Street
Bay Shore, NY 11706

Dear KUG,

Please let me add my voice to the others who praise Derek McKay and his products from **Plu*Perfect Systems**. It is remarkable these days to find a manufacturer who has the concern and patience to spend nearly an hour on a coast-to-coast telephone connection to help a customer solve a problem. That is precisely what Derek did for me yesterday, putting in poor contrast the ill-trained and uncaring folks who man phone banks for the big companies.

Langley Wood
PO Box 3387
Lynchburg, VA 24503-0387

Dear KUG,

Here is my question in a nutshell: How do I go about upgrading the ROM BIOS in a Kaypro 16 so that it will recognize 640k of conventional memory?

Here is the background: I own a Kaypro 16 with a 360k floppy drive and a 10 MB Winchester. The machine is fully populated with 512k RAM memory. I have replaced the Intel 8088 with a NEC V20 and have installed an 8087 co-processor. I am using an Intel Above Board PS to provide 1.5k of expanded memory as well as additional serial and parallel ports and a clock/calendar.

My problem is that with 512k of conventional memory and a stack of TSR's in use (SuperKey, SideKick, Turbo Lightning, PCSG Lightning, Ready, IBM File Facility, CED, CBoot and miscellaneous others), I end up with under 200k for actual use, which is not enough for some programs to even load (Reflex, for instance, or Dollars and Sense). I can load and unload the TSR's using MARK and RELEASE (two PD utilities), but that quickly becomes boring, even using batch programs to do so. I very much need the additional 128k and 640k-recognizing ROM BIOS would provide.

I did approach a dealer in San Francisco when I was there briefly, and he got in touch with Kaypro. He was told a complete board-swap was necessary, and that there was a 3 month waiting period for a board. Not having 3 months available to me (I am traveling around the country, for which the K-16 is admirably suited), I did not pursue the matter. I am doing so now in the belief that there must be an easier way.

I would appreciate any help.

Ed Fitzgerald
Tap Dance Kid
c/o Touring Productions, Inc.
1500 Broadway, Suite 1901
New York, NY 10036

Dear KUG,

Has anyone developed an item-analysis program for teachers or test constructors?

James B. Bickley
1441 Irving Avenue
Glendale, CA 91201

Dear KUG,

This program sets the Gemini-10X to unidirectional printing, to attempt to eliminate the problem of the print head hanging up on the ribbon in expanded mode.

BANDAID.AZM
DOUG MONCRIEFF 04/08/86
WRITTEN FOR Z80 ASSEMBLER

	ORG	100H
QUIT	EQU	0000
BDOS	EQU	0005
LPRINT	EQU	0005

STRING DEFM 27,85,01,13,00

27D, 85D, 01D equals ESC U 01, the Gemini command to go to unidirectional mode.

13D equals <CR> and shoots command to printer.

00D terminates string.

START	LD	HL, STRING
	CALL	LPRINT
	LD	C, QUIT
	CALL	BDOS

Subroutine to send a string to the printer:

HL -> start of the string. String should be terminated with a 00.

LPRINT	LD	C, LPRINT
	LD	E, (HL)
	PUSH	HL
	CALL	BDOS
	POP	HL
	INC	HL
	XOR	A
	CP	(HL)
	JR	NZ, LPRINT
	RET	
	END	START

Douglas M. Moncrieff
Consulting Physicist
2975 Corona Avenue
Norco, CA 91760

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Juki 6100 Ribbon Help

Of the measures listed below, by far the most important is to get the right kind of ribbon. I suspect that the height adjustment gets into the act only if someone has tried to correct the ribbon-feed problem without getting the right kind of ribbon.

Except for this ribbon-feed quirk, my experience with the Juki 6100 was very good. In fact, the one I have is giving me good service.

The vertical location of the exit guide (the point at which the ribbon leaves the carriage) is adjustable. The proper height is that at which there are equal widths of unused ribbon at the top and bottom of the ribbon. If the height is too great, the bottoms of characters will be lost when the ribbon is at the top of its travel. Similarly, if the guide is too low, the tops of characters will be lost when the ribbon is at the bottom of its travel.

To adjust the height of the guide, proceed as follows:

A. Full Procedure. Use this to get familiar with the process; this method allows one to see what is going on.

1. Remove ribbon. Return the ribbon lever to the position it occupies when using the printer (i.e., to the right).

2. Remove the ribbon carriage platform by unsnapping it at two points at the front and two at the rear. The platform is a black plastic molded part about the length of the ribbon cartridge.

3. Remove the ribbon drive assembly by removing the single Phillips-head screw on the left-hand side of the carriage. The drive assembly can then be slid to the left a little, which disengages the right end from a hole in the right-hand carriage side plate.

4. Loosen the locknut at the right-hand side of the carriage about one turn. The locknut is on a threaded shaft which has a screwdriver slot in its exposed end. A 5.5mm socket on a nut driver handle is the proper tool for this operation.

5. Using a Jeweler's screwdriver, turn the shaft to move the ribbon guide up or down.

6. Tighten the locknut again.

7. Reinstall the ribbon drive assembly and the screw which secures it.

8. Snap the ribbon carriage platform back into place.

9. Move the ribbon-loading lever to the left and reinstall the ribbon.

10. Test the printer. This is most easily done with the Self-Test. Press the line feed switch while turning the printer on. This requires wide paper to be in place; an 8 1/2 x 11 sheet turned sideways will do.

11. Repeat as necessary.

B. Short Procedure. Use this after becoming familiar with the mechanism by using the procedure under A above.

1. Loosen the locknut as in A.4 without removing the ribbon, platform and drive.

2. Adjust the ribbon guide height as in A.5. This step is not easy, as it is almost impossible to see the screwdriver slot in the shaft with the other components in place. Once the procedure has been mastered, however, it is MUCH faster than the method in A.

3. Tighten the locknut securely.

General Notes:

When the ribbon guide height is correctly set and the right kind of ribbon is installed, the ribbon will enter and exit the carriage guides without folding over at either top or bottom.

The "right kind of ribbon" is that sold by IBM for the Selectric II as "non-correctable." This is IBM Catalog No. 1136390. Other ribbons look the same, but they don't work the same. The difference is probably in the tolerances on the plastic molding for the ribbon cartridge. (The above information is from "Profiles" for July-August 1985, page 80.)

IBM ribbons are available by telephoning any IBM Product Center and placing an order via VISA. The current price (August 1985) is \$4.10 per ribbon, plus sales tax, with a minimum of \$15. There is no charge for delivery.

Patton Lewis
8335 Camino Sur
Cucamonga, CA 91730

Where's Thorn EMI ?

I purchased **Perfect Calc**, **Filer** and **Writer** ver. 2.0 from Thorn EMI Computer Software, Inc., P.O. Box 10425, Costa Mesa, CA 92627, in February 1985. The software they provided was copy protected. The **Perfect Calc** disk became inoperable in October 1985; I sent Thorn EMI the defective disk and their replacement fee of \$10, requesting a replacement. Thorn EMI's only action was to cash my check. I did not receive a replacement.

In December 1985 I wrote the Thorn EMI Computer Software, Inc., Chief Executive Officer a letter outlining my problems.

When Thorn EMI did not respond, I requested assistance from Consumer Affairs. On April 19, 1986, the Department of Consumer Affairs, State of California, advised me that they were unable to locate Thorn EMI Computer Software, Inc. They further stated that, according to the Costa Mesa Business License Bureau, the business license for this company was terminated July 10, 1985.

Has **Perfect Software** become orphaned? Do you know of a source that is responsible for support of version 2.0? Without the support of Thorn EMI or its successors, is there a company that could take off the copy protecting code from my remaining master disks?

Thank you for any help or advice.

If there is no support for this software, I think KUG should issue a warning because I still see **Perfect Software** offered for sale.

C. G. Winn, Jr.
1923 A1A, Unit A2
Indian Harbour Beach, FL 32937

Thorn EMI Found !

We have received mail from members around the world (including Malaysia) regarding the whereabouts of Thorn EMI Computer Software, Inc.

Thorn EMI has moved its offices from California to Massachusetts. The new address is 285 Mill Road, Chelmsford, MA 01824. The new telephone number is 617/256-3900. We have called this number and they do answer "Thorn EMI."

CP/M Stuff

We have been writing about CP/M for quite some time now and through the years we have been asked questions such as:

How does CP/M work?
What are CCP and TPA?
What do BDOS and BIOS mean?

Without being too technical, we will attempt to answer the above.

Your computer contains a certain amount of RAM (usually 64k of memory) that is available as working space. Some of that space is used for CP/M when you "boot" your system. That amount is 8k bytes and it always resides at the top where it is readily available.

This CP/M area is divided into three major processing components and one special reserved section.

The first major component is named BIOS and stands for Basic Input/Output System. It handles the operations of any peripherals such as disk drives or printers. Since it is hardware dependent, different brands of computers will operate differently.

The second is BDOS and stands for Basic Disk Operating System. It controls disk management including allocating space on the disk, obtaining additional space when needed and handling all files. Files are RENamed by using BDOS. So you see it has important functions other than "BDOS ERROR."

The third is CCP and stands for Console Command Processor. It provides the link between you and the operating system. Every time you press <return> the CCP reads and interprets the command you have given the computer and acts accordingly.

Only BDOS and CCP are machine independent.

The special area is TPA and stands for Transient Program Area. This is the part of memory that is reserved for all your user and system programs. These are the programs that are usually listed in your directory.

These are some of the basic interpretations. If you want to learn more about them, you will find additional information in the book *CP/M and the Personal Computer* by Dwyer and Critchfield, published by Addison-Wesley and priced at \$19.95.

WordStar Space Saver

Have you been annoyed that WordStar 3.3 is bigger than 3.0? Well, it does more and is better, right? Wrong. It may be better, but that extra space is taken up by that front piece, the one that says "Micro Pro" and makes you look at their self-love for a while (until you discover that tapping any key will send it shuffling off screen). Here's how to be completely rid of it and save a few K of disk space (as well as faster reading and copying of WS.COM).

The last 500h of WS33.COM (version 3.3 of WS.COM) consists of a few bytes of the 2nd, the copyright screen, followed by that initial bother. When we cut out the call to the routine that displays the first screen, as explained on p. 81, Profiles 3:1, there is no need to keep it around, and we can modify the second screen to stop a few bytes earlier. This will give you a little practice with DDT and do something useful, like saving some disk space.

How does it save disk space? CP/M assigns disk space in hunks called allocation groups. 1K is the smallest amount of disk space that any CP/M system deals with (as on Kaypro II), the K-4 uses 2K hunks for 400K byte disks, and my PRO8 monitor (with 800K byte disks) has 4K groups. It happens that this last 500h is strategically located at the beginning of the last group, and by cutting it out, we save a whole group -- 1, 2, or 4K, depending on your computer. (You might also patch DEL 4 and DEL 5 (02B2 and 02B3) to 01 01 to avoid looking at an empty first screen).

To zap it, first do a DDT WS.COM (on an experimental disk), and as explained by Enright on p. 81 of that issue, NOP out (i.e. zero out) the call at 3CF4, 3 bytes which should be CD 2A 1B. Forget this, or do a fair bit of research if they are different from this, for you have a different version. See Enright's notes if in any doubt.

If you want to be very cautious, back out of DDT (G0 or ^C), save it as WSS.COM (WS Short) and try it out. See the notes on p. 36 in that same issue (July '85 -- the "WordStar Issue") on how to SAVE it, if you have doubts. But if you use a different name like WSS, you can't hurt much, so just go ahead and do it. Then try it out, to be sure the first menu is not displayed.

Now, back in DDT (if you left it), take a look (d) at 3F80. It should be the center part of the second screen, explaining what copyrights

mean, as if you didn't already know. Replace two of its bytes with 0E 00. The 00h stops the print out, and the 0Eh makes a new line first. Be sure that an 00h is on or before 40FF so that the printing routine will not run off the end of the file and keep printing whatever it runs into before it finds a 00h. Now drop out of DDT and save 5 pages less (from 0100 to 4100) this time. You have your shorter WordStar now. Try it out.

Note: If you put the 0E 00 at the beginning of the copyright explanation, it simply won't appear, a nicer appearance at least, but you can also overwrite it with notes to yourself about the version. I put the date of the revision (a sure indication of which one I have up) and MY name (I like it better than MicroPro's, and I won't be tempted to give a copy of it to someone else), plus what ^E, ^Q, ^R, ^W do in that version and any other special characteristics. The printer customization will show up below, so don't bother with that, but I use ^A...^N for continuous underlining, now, so that goes there. Incidentally, you are NOT erasing the copyright notice (which is probably illegal), only the explanation of what it means, so there is nothing wrong with it.

To write in a new display, don't use DDT -- it is too cheap a product to allow you to input alphabetic characters in anything but HEX codes, which is for masochists only. Use DU or any disk utility (or good debugger, or DART, my Disassembly and Revision Tool available from KUG) that allows inputting alphanumeric characters, and just type away, remembering to use 0Eh for new lines. (You can use 0D 0A, but that is longer.) If you use DU (which everyone who wants to fool around with things should have), then that display is the last thing in WSS.COM. So FWSS.COM to get the group numbers for this new file, take the last one and add 1. This is the group following the last group in WSS.COM, so now back up 1 sector so you are looking at the last sector of the last group in WSS.COM, and you should see your display to modify there. Use CA##, to write " " beginning at ## in that sector, and don't forget to write (W) it back to disk before changing sectors if you don't want to lose your changes. I always forget and have to do the changes twice, but maybe you're more organized than I am. Good luck, and have fun. You can't destroy anything if you work on an experimental disk.

R. Hofmann
Toyama University
Toyama, Japan 930

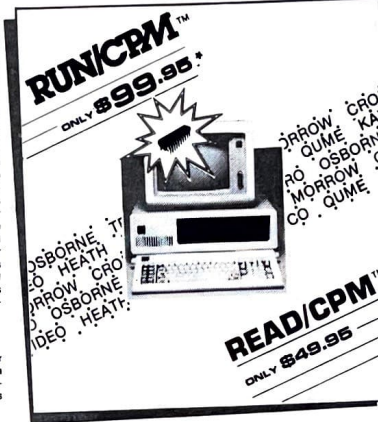
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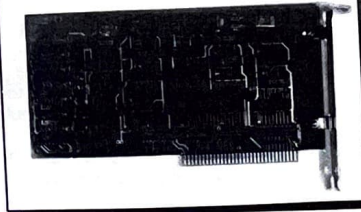
RUN/CPM is a revolutionary new product which combines software and hardware to allow your PC to run 1,000's of programs written for the CP/M80 operating system. For years, popular 8-bit computers such as "Kaypro", "Osborne", and "Morrow" have relied on this vast library of high quality, inexpensive software, which can now be accessed by your PC. A simple replacement of your PC's 8088 or 8086 microprocessor creates a system capable of running both CP/M80, and MS-DOS/PC-DOS software. In addition to adding 8-bit CP/M compatibility, your PC's overall performance will improve by up to 30% as a result of the speedup characteristics of the V-20 and V-30 microprocessors. Running CP/M software directly from CP/M disks is easy thanks to RUN/CPM's disk emulation feature, which will allow your PC's floppy drives to directly READ, WRITE, and FORMAT the most popular CP/M disks. You will also be able to run CP/M programs 2 to 3 times faster. In full color, from a hard disk or RAM disk, and actually run MS-DOS background programs such as Borland's "Sidekick" on top of CP/M programs! Add pop-up windows, terminal emulation, and help screens and it is easy to see why RUN/CPM is fast becoming the de facto standard in CP/M emulation software.

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_____	RUN/CPM Z80 (Board Only)	\$199.95	
_____	RUN/CPM Z80-H (Board Only)	\$499.95	
_____	READ/CPM	\$ 49.95	
_____	V-20 Emul. (Requires 8088 up to 1.4 MB)	\$ 24.95	
_____	V-25 Emul. (Requires 8088 up to 1.4 MB)	\$ 14.95	
_____	V-30 Emul. (Requires 8088 up to 1.4 MB)	\$ 14.95	
_____	V-30 Emul. (Requires 8088 up to 1.4 MB)	\$ 14.95	
_____	MICRUN80 (UD) (Requires 8088 up to 1.4 MB)	\$49.95	
_____	MICRUN80 & V-20 Z80 Board	\$99.95	
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K1

Add \$5.00 shipping charge per order except for V-20/30 chips which include shipping. International orders add \$10.00

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* Requires V-20 or V-30 microprocessor

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Two-Column Printing

by M. Quigley

I use **WordStar** to put out a newsletter as well as a small magazine. It's not really all that difficult to print in two columns. It just takes a little planning before you print the final product.

The first thing to do is to type all the copy into one file. Separate each article with a page break (.pa) command. Type the article title in as well or leave space for it if you use press-on letters. Use the default margins for now and reformat to the narrower margins when you're finished typing the copy. It's easier to edit when you have a full page width to work with.

Next, change the right margin to the narrower width of the newsletter (I use 36 characters per column) using the format command ^OR. Move back to the top of the file and reformat the entire file using the reform (^B) command. Make sure justification (^OJ) and hyphen help (^OH) are on.

The entire file should now be reformatted to the width of a single column with each article occupying a single page or set of pages. Now, on a sheet of paper write down the title and the number of lines each article takes up (including the title and any blank lines in between). Newspaper people call this sheet the copy log. (Hint: **WordStar** always tells you at the top of your screen what line the cursor is on. That's why I put the page break at the top of each article.)

When you've finished the copy log, save the file, print a copy of it and then turn the computer off because you now have to plan the layout of your newsletter.

You should already know exactly how many lines are available for each page of your newsletter. For instance, I can put 47 lines of text in each column on the front page, 58 lines on the middle pages and only 39 lines on the last page. Knowing this, I prepare what journalists call a dummy sheet.

My dummy sheet is just a rough sketch of each page on a single sheet of yellow legal paper. Sketch in where each article goes, keeping in mind the number of lines available and the number of lines each article takes up. Using the rough draft that was printed out earlier, make notes on exactly where you have to add page breaks to the articles in the file so

that when you start moving things around in the column mode everything will line up properly.

Now, go back to the computer and reopen the file. This time, turn on the column mode using the ^KN toggle. Go through the entire file adding page breaks (^PA) at each point where an article continues to another column or page.

This is where the fun begins because here's where you start playing with two column text. Let's pretend that you have a two-column, one-page newsletter 55 lines long with a single article to print in it. Let's also pretend that each column will be 36 characters wide with a three character wide space (the "alley") between the columns. Reformatting the text to the narrow column width left you with two pages of text 36 characters wide, each with 55 lines of text.

First of all, increase the right margin to the total width of the 2 columns of text plus the width of the alley using the ^OR command (36 plus 36 plus 3 equals 75).

Then, move the cursor to the first character which will be in the upper left corner of the second column of text (the first character on page 2, line 1, in this example). Mark the character using the ^KB command. Now move the cursor to a position exactly one column to the right of the last column of text on the last line of text (page 2, line 55, column 37). Mark the end of the block using the ^KK command. You should see the entire column of text highlighted. Note that only the text, and not the entire screen, is highlighted.

Move the cursor to the position where the second column will begin (back up on page 1 line 1, column 40). Now move the highlighted text by using the ^KV command. You should now see two columns of text which begin on the same line and end on the same line. Use the ^KH command to get rid of the inverse video.

That's all there is to it. Notice that you have one page of nicely formatted text as well as a page with nothing on it. Oh yes, there is one more thing to do before you print your newsletter: Put a microjustification off (.uj off) command at the beginning of the file. Now you can erase the blank page, print out your two-column newsletter and pat yourself on the back for learning a new **WordStar** trick that will make your entry into the publishing business much easier.

WestWind DriveC 2

I recently decided to take the plunge and upgrade my Kaypro II by adding a 1 Mb RAM disk purchased from WestWind Computer -- their model DriveC 2. Because I have always enjoyed reading comments from other users about their experiences with new hardware and software, I decided to let others hear my comments about this product.

I use my Kaypro mostly for word processing (using **WordStar** and **The Word Plus**) and for filing a collection of a few thousand research articles (using **Pro/Tem's Notebook**). While writing, I have often yearned for more space on my floppy disk. And of course I have whined away more time than I care to think about listening to my drives click and whirl during long searches, sorts, checks, and print requests. I decided a RAM disk was a good step towards a solution.

DriveC 2 arrived neatly packaged and ready to install -- complete with a notebook full of documentation, several floppies filled with software, and a screwdriver for installation.

I had pulled the cover off my Kaypro once to peek inside, but that was the extent of my experience with its innards. Nevertheless, after scanning the installation instructions, I felt ready to give it a try.

The installation instructions were generally clear and easy to follow. The only question I had concerned the orientation of a connecting lead. A call to WestWind quickly cleared up my problem, and I was told that others had called with similar questions. They said that they had corrected the ambiguity in their most recent documentation.

From start to finish, I had DriveC 2 up and running in about 2 hours. I've been using DriveC 2 for about a month now, so I have more yet to learn. What I've seen so far is great. Here are a few comments.

The documentation is thorough and generally easy to follow. I started out using DriveC 2 with the factory-installed default options, but I soon learned a couple of shortcuts. For example, I now have one floppy that contains all of what I need to initialize and load DriveC 2 from a cold boot, and load **WordStar** as well. The whole operation takes a few seconds longer than loading **WordStar** alone, but this time spent pays off, with interest, in faster processing time once I am working.

A minor criticism of the documentation is that it has been designed to cover DriveC 2, the RAM disk, as well as the hard disk sold by WestWind. This makes sense from the vendor's perspective, especially since each product has been designed to be used separately or in combination, but it's a bit of a nuisance for the user with only one of the products.

The performance of DriveC 2 is impressive. Using **WordStar** with DriveC 2, for example, is a delight. Not only is it feasible to work with very large files, the increased speed is amazing, especially for some operations such as a global search and replace. Needless to say, checking a text file with **The Word Plus** is now quick and painless, a sharp contrast to the time-consuming task it once was.

Finally, once a print request is made, the file to be printed is sent off to DriveC 2's print buffer where it is silently stored until printing is complete. The speed of the RAM disk is even more apparent using the database program **Notebook**. Because **Notebook** handles each record separately, and is constantly accessing data from the disk drives, DriveC 2 makes quick work of searches through long files with many entries, searches that were slow and cumbersome before.

WestWind includes a number of utility programs that make DriveC 2 easy to use. For instance, a program called **ARKIVE** copies files from RAM disk to floppies, requesting additional floppies as necessary. If needed, large files are automatically copied to multiple disks.

Other utility programs allow users to customize the default configuration of the RAM disk and to create menus for repetitive tasks. In addition to the utility programs, WestWind has bundled other software with DriveC 2, including **SuperFile** and **SuperSize SuperCalc2**.

All things considered I am very satisfied. For about \$600 I now have faster disk access speed, larger file handling capability, a print buffer, and some additional handy software.

David Harry
5603 Panama Avenue
Richmond, CA 94804

KUG rates are GOING UPI

Please see Page 23 for full details.

Kaypro 2000 Hints

I purchased an early 2000 because my experience with the II was so good that I expected the 2000 to be equally well designed and manufactured. I have had second thoughts on that decision. The 2000 is super and I sincerely like the equipment. However, it has been back to Kaypro for an upgrade already. I got a very early model, and the operating instructions are very limited. They installed a switch to turn the battery on/off but neglected to tell me the advantages of leaving it on (the clock remains on if the battery is left on (Real Time)). I have several utility programs for the 2000 without documentation or manuals on how to use them. (Poly Windows, Kboot, Kdesk and the Mite manual I received were written for CP/M usage, it appears.)

Hint 1: Leave the battery on and use KBOOT in the autoexec file and the clock/date is set automatically with each boot-up.

I also have the 2000 Base unit, but it has never worked as expected or properly. The parallel port does not send the signal to my Okidata 84 properly. I can print only left justified and without any spaces.

This is how it looks on the printed page whether it is a number or a word in a sentence. If forced the sentence breaks at there because without spaces Perfect Writer will not start a new line.

The serial port just turns the 2000 off. (The cursor moves to the beginning of the line and blinks.) The Base unit was returned to Kaypro with the 2000 for updating, but it was no different when it came back, so the dealer ordered a new mother board. But the Base unit is still the same as before it was installed. And incidentally he has yet to call me about what to try again.

Now I realize I have not mentioned here how I activated the Serial port, so I will stop and do that.

Hint 2: MODE LPT1:=COM2:
MODE COM2:96,,,,,p

These two Mode commands direct the output from the parallel port LPT1: to the serial port baud, etc. This same setting of baud and parity etc. works for my serial to parallel interface when used between the Okidata 84 and 2000 serial port COM1:.

The serial port on the 2000 will properly send signals to the Okidata 84 printer through the interface, and in fact the 2000 works just fine without the Base unit. I have used Lotus 1-2-3 ver. 1A and now Release 2 on the 2000 and have tried Symphony on it.

Unfortunately, Lotus 1-2-3 Rel. 2 will not start while plugged into the Base unit. It just turns the computer off. (The screen goes blank and the cursor sits in the upper left corner and blinks.) It must be warm booted to clear this condition and become operational again.

Hint 3: To run the program I plug the 2000 into the Base unit and boot up before turning on the electric power (boot up under battery power) then once 1-2-3 has started (spreadsheet is on screen) I plug in the power. (Note: the Base unit does not have an on/off switch. You must use the power cord to engage the power supply -- a unique situation.)

The dealer tries to think of logical reasons why the Base unit does not work as expected. After all, he does not want to accept that it has a design or operational flaw. Therefore he has said things like, "It is not compatible with Lotus," "It is not compatible with Okidata 84," while all the time I have successfully operated these with the 2000 unit alone.

Some documentation on the proper use would be helpful. The 2000 is a dual A:/B: single drive designation, and when plugged into the Base unit the drive in the Base is C:. However, this disables the B: drive in the 2000. What this means is you cannot get files from a 3 1/2" disk on drive B: or format a 3 1/2" diskette in B: while plugged into the Base unit or copy files from one 3 1/2" diskette to another. Either you must format and copy diskettes while operating as a lap unit or have the DOS on a 5 1/4" diskette to perform from C:. A little cumbersome and sure not documented.

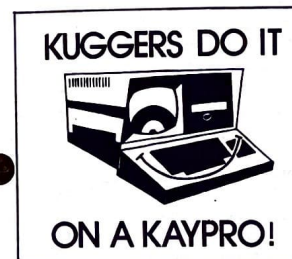
Hint 4: The 2000 unit has one drive dual purpose A: B:. The Base unit has one drive designated C:. Together the 2000 with Base unit has two drives A: C:. Using Hint #3 of booting up under battery power, and then plugging in the base unit power, will operate the 2000 under lap conditions (i.e., drive A: B: with no access to Base drive C:). Note: Set the 2000 on the Base unit before booting up!

T.I. McLaughlin
7453 East 65 Street
Indianapolis, IN 46256

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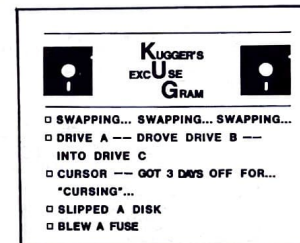
T 100



T 300



T 200



T 400

The contest is over and the winners have been selected. As you can see by the above designs, a lot of thought, love, humor and effort went into the design of each one. We want to again thank all the members who participated in this effort.

Now it's your turn to let us know how well we did in selecting these designs. Just fill out the form to order your favorite KUG Tee Shirt and it will be shipped to you in approximately four weeks. All of these fine tee shirts are printed in black ink on beige material (ala KUGRAM®) and manufactured in the U.S.A. The cost of each shirt is \$10.00 (U.S.) shipped pre-paid. (Outside U.S.A., add \$2.00)

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Shirt # _____ Size _____ Shirt # _____ Size _____

ADULT SIZES ONLY

Small — Medium

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Library

101 PAC-MAN & CHESS (Games)
 102 ELIZA & GOLF & MISC. GAMES
 103 MODEM795 for tel. comm. (Modem)
 104 HELP CP/M, MBASIC + Others (Helps)
 105 UTILITIES 1
 106 ADVENTURE (Games)
 107 STATISTICS
 108 MBASIC MYSTERY (Games)
 109 UTILITIES 2
 110 POSTER PRINTOUTS (Pictures)
 111 KAYPRO 10 GRAPHICS
 112 HELP PERFECT, SBASIC, Etc. (Helps 2)
 113 SBASIC & MBASIC (Business)
 114 LITTLE BLACK BOOK (Directory)
 115 STAR TREK + 15 MBASIC GAMES
 116 MULTI-FORMAT DISK FOR K II, IV & 10
 (Multi-format disk runs on CP/M only.)
 119 CONCENTRATION + 15 MBASIC GAMES
 120 HP CALCULATOR + MISC.
 121 STANDARD FORTH (Language)
 122 SOURCE FOR FORTH (Language)
 123 WP & PC UTILITIES
 124 UTILITIES 3
 125 HANDY (Time Management)
 126 ASTRONOMY (Science)
 127 PC & PW UTILITIES
 128 KAREL THE ROBOT (Language)
 129 MONOPOLY + MBASIC GAMES
 130 MASTER CATALOG (Catalog)
 131 LOGO GENERATOR/EPSON (Business)
 132 SUPER UTILITIES 4
 133 STATISTICS 2
 134 STATISTICS 3
 135 STATISTICS 4
 136 STATISTICS 5
 137 STATISTICS 6
 138 FRANKENSTEIN (Game)
 139 LITTLE BLACK BOOK (MBasic update)
 140 FILE CARD DATABASE
 141 K10 HARD DISK UTILITIES
 142 ACCOUNTING PACKAGE (Business)
 143 DISK MANAGER + (Utilities)
 144 WORD PROCESSING + (WP Utilities)
 145 TYPE & MATH—MBASIC (Educational)
 146 UTILITIES 5
 147 PF & WP UTILITIES
 148 SCREENWRIGHT (Format)
 149 VEGAS (Games)
 150 MONEY MANAGEMENT (Business)
 151 OUTLINE (Business)
 152 SUPER LABELS PROGRAM (Utilities)
 153 FLIGHT FANTASY (Games)
 154 UTILITIES IN PASCAL
 155 TELE/DEVICE/DEAF (Modem)
 156 MEX II (Modem)
 157 RCPM REVEALED (Modem Utilities)
 158 KREEP (Database System)

159 YANC (Catalog)
 160 ULTIMATE MODEM (Modem)
 161 K-4/84 UTILITIES 1
 162 20 PRINTER P/W CONFIGS (Utility)
 163 SIMPLE DATA BASE SYSTEM (DB Utility)
 164 POOR MAN'S RCP/M (Modem Util)
 165 EASY BOOKKEEPING (Business)
 166 FAMILY TIES 1 of 2 (Genealogy)
 167 FAMILY TIES 2 of 2 (Genealogy)
 168 DJIPLLOT (Business)
 169 DRAWFONT (Graphics)
 170 BASIC ARITHMETIC PROG. (Educational)
 171 FUNDISK
 172 HANDY TOOL KIT (Utilities)
 173 101 FAMOUS TIPS (Utility)
 174 ADDRESS FILER (Database)

* 175 YAMS (Yet Another Mailing System)
 * 176 TURBO PASCAL ROUTINES (I/O Tool Kit)
 * 177 DIRECTORY/MENU UTILITIES (W/P)

+ 701 PC-UTILITY & CATALOG (Utility)
 + 702 CHESS & CASTLE (Games)
 + 703 OUTER SPACE (Games)
 + 704 PC-TALK (Modem)
 + 705 PC-ACCOUNTING (Business)
 + 706 SIDEWAYS (Printer Utility)
 + 707 PCYEARBOOK (Business)
 + 708 FULL SCREEN EDITOR (Editing Disk)
 + 709 FAMILY TIES (Genealogy)
 + 710 PC-WRITE (Word Processing)
 + 711 ARCADE (Games)
 + 712 PC-SING ALONG (Music)
 + 713 COMPU-TEACH (Education)
 + 714 PC-TOUCH (Education)
 + 715 PC-FILE III (DB Management)

*+716 GRAPHICS 1
 *+717 GRAPHICS 2
 *+718 YAMS (Yet Another Mailing System)
 *+719 TURBO PASCAL ROUTINES (Tool Kit)

* New Disk
 + MS-DOS disk

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You can get change of address cards from your local post office.

National KUG Disks

DISK 165: EASY BOOKKEEPING

BKCLOSE.BAS;	BKCLOSE.COM;
BKCREATE.BAS;	BKCREATE.COM;
BKPOST.BAS;	BKPOST.COM;
BKREPORT.BAS;	BKREPORT.COM;
BKUTIL.BAS;	BKUTIL.COM;
BKVIEW.BAS;	BKVIEW.COM;
README.DOC;	TEST:

This is a series of programs for handling a general ledger, translated into **SBasic**, derived from programs in the book *BASIC Computer Programs for Business, Vol. 1*. There is little documentation, but the programs may be usable without them. Source code is provided for perusal or even modification.

With this system of programs, one can create files of records for one's accounts; post journal entries of transactions; add, change, or display entries for an account; display a list of accounts; or print up reports of income statements or balance sheets. The programs are menu driven, and each is separate from the others (not linked).

DISKS 166 & 167: FAMILY TIES

#166—FAMILY TIES (1 of 2): BASRUN.COM;
 FGRSH.INS; FT.COM; FTINSTAL.COM;
 FTINSTAL.DAT; FTINSTAL.MSG; GRSH.COM;
 NAMES.DAT; NAMES.NTS; PRINT.CTR;
 README; REGISTRN.FRM; USER-NO.COM

#167—FAMILY TIES (2 OF 2): BASRUN.COM;
 FGS.FRM; FGS-LDS.FRM; FORMS;
 FTDEMO.COM; FTDEMO.DAT; FTDEMO.DOC;
 FTDEMO2.COM; FTDEMOIN.COM; MANUAL;
 PED.FRM

These two disks are a collection of genealogy programs written in compiled **MBasic**. This shareware has an extensive documentation file and a lengthy demo program as well.

The program keeps a record of information on each of an entire database of people, all of whom must be related to someone else in the database. Each record contains data such as date of birth, marriage, death; names of children, parents and spouse; along with codes indicating the reliability of the information, etc.

You can print out a pedigree or a family group sheet, search by name, or go to a particular record. You can also move through the database following a chain of relatives.

New Library Descriptions

DISK 175: YAMS

Yet Another Mailing System. A Turbo Pascal Mailing List program. Uses Turbo Access routines found in the Turbo Database Toolbox. The source code is included.

DISK 176: TURBO PASCAL ROUTINES

IO20DEMO.PAS/COM: Sophisticated method of controlling console data entry in Turbo Pascal. Allows precise control over where data entry occurs on the screen and makes programs crash-proof from user input.

DISK 177: DIRECTORY/MENU UTILITIES

MASTHEAD.COM: Prints 1" block letters. XCCP: A substitute console command processor for **CP/M-80**, providing additional functions. OUTLINE.COM: Use with **WordStar** to produce an outline. SAP v4.3: Reads disk directory tracks, sorts the entries alphabetically and then rewrites them back to the disk. ZIPP: Joins up to seven ASCII files in a side to side or column sense. WSDOCON: **WordStar** non-document to document conversion program.

DISK 176: GRAPHICS 1

BANNER.BAS: Prints a banner to a scale and in characters you choose. TABLET.BAS: Used with Color Graphics Adapter and Advanced Basic to produce picture (.PIC) files in color. Disk contains demo files. ETCH22: Etch-a-Sketch.

DISK 177: GRAPHICS 2

3-D.EXE: Define your own 3-dimensional shapes and figures and save them to disk. MDRAW.BAS: demonstrates the color graphics capability of the PC. Provides an easy way to: set colors; draw or sketch points, lines, boxes, and circles; paint figures; and load or save screen pictures. SLIDE.COM and SHOW.EXE: Slide/Show organizes and displays graphic images created on the Color/Graphics Monitor by other applications software.

DISK 178: YAMS

MS-DOS version of Disk 175 described above.

DISK 179: TURBO PASCAL ROUTINES

MS-DOS version of Disk 176 described above.

DOT COMMANDS

WordStar is meant to be screen oriented, meaning that what you see on the screen resembles what you get with the printed result; the commands beginning with Ctrl-O all help to format what you see on screen. Ctrl-P commands also create certain print effects. However, dot commands do what those commands can't; they handle formatting that can't be shown on screen. And what's different about them is that these commands are not executed while you're editing your file; they are embedded into the body of your file and take effect only when you print.

A dot command is a non-printing line in your file that has a period in the first column; it is treated differently from normal lines of text. If you edit a new file in WordStar and type a "." in column one of a line, you'll see a question mark on the right edge of the screen. That's a flag, indicating you've started a dot command, but haven't completed it. Let's say you enter the letters "pa" immediately following the period, and then press Return. You should see a page break across your screen. That's because the dot command ".pa" means "page advance," which causes a new page to be started. It's useful if you want the rest of a page to be blank, but you don't want to press Return twenty times.

Another useful dot command is ".op" for "omit paging." If you enter this as the first line on a short business letter, WordStar won't print that unnecessary page number "1" at the bottom. Or let's say that you have a report with a title page, and you want the page numbering to start on the first page of text. Just enter ".op" at the top of your document, and enter ".pn 1" at the top of the first page of text; that starts page numbering at whatever number you enter. (Thus the title page is not numbered, but the numbering starts on the first page with "1." And in case you were worried: the dot command won't appear when you print the document, and it doesn't make your page shorter by taking up a line; it's invisible at print time.

Things to remember when entering any dot command: the command must be on a line all by itself, starting with a period and command, and ending with a hard return. However, you can put any number of spaces between the dot command and the number you specify (so you

could have ".pn1" or ".pn 1"). Capital or lower case letters can be used. Also, you can enter two periods consecutively; this starts a comment line, where you can type some reminder to anyone who reads the file. It is totally ignored at print time (unless you answer "Y" to the question "Suppress page formatting." Then the raw text file will be printed without page breaks and with all the dot commands visible and unexecuted.)

What other things can you do with dot commands? Plenty. Do you want to print with one-and-a-half spacing (which is impossible with Ctrl-OS)? If your printer is capable of it, you can use ".lh" to control line height. Normally one line is one sixth of an inch high, or eight/forty-eighths. (1/48th of an inch is the standard increment for vertical movement for printers.) If you enter ".lh 12" your lines would be one and a half times as tall as single spaced lines, just what we were looking for. ".lh 8" returns us to the default value.

But wait; a page is 66 lines long, so now your page will be one and a half times normal length. Use ".pl" to control the number of lines on a page; ".pl 44" will give your page just enough fewer lines so that it will fit on a standard sheet of paper. You can also use ".pl" if you are using non-standard size paper.

There is a dot command that you may find handy if you have tables included in your text. You probably don't want the table to be broken across two pages; the entire thing should be on one page or the other. Use ".cp" for conditional paging; specify the length of the block in lines (e.g. ".cp 15" for a fifteen line table), and enter the command just above the block that mustn't be broken. Then, when WordStar prints the file, it will determine if the block will fit at the bottom of a page; if not, it will move down and start a new page, printing the entire block there. This allows you to edit without worrying about whether your changes will push tables into bad positions.

It's TEE SHIRT Time !!!

Summer is here and now would be a good time to get those GREAT KUG tee shirts. If you are among the many hundreds who have already ordered one, you may want to get some as gifts for friends and relatives while they are still available!

Order now!
See our ad on page 13.

In Response

...When saving space on a disk for a file or program, i.e., SAVE 137 PW.COM, you are saving pages, not kilobytes. PW.COM is 35k. Each k = approximately four pages, so 35k requires that you SAVE about 140 pages.

...When creating columns in WordStar, first format the columns. Turn justification on before saving the document.

...Some laserjet printers emulate the Diablo 630 or the Epson MX80. Therefore, when setting up your word processing program for the laser printer, use the configurations suggested by the laser printer company.

...To custom install your printer for WS, find the list of codes in your printer manual, run WINSTALL, press + at the first menu, and follow the messages to enter your codes.

...You can format MS-DOS disks on a Kaypro with a program like Multicopy, Uniform, Compat or Media Master. However, MS-DOS formatted disks cannot be read on a Kaypro.

...Kaypro's Third World Project is on hold. Tom Foote, the coordinator of the project, is no longer with Profiles.

...If you wish to send a contribution to KUGRAM, do not worry about length. We edit all material to satisfy our requirements.

...To convert a file to all lower or upper case using PIP, make sure the file is in raw ASCII (non-document mode). You might try stripping the file with [Z] first, or combining the two attributes: [z u].

...The Silver Reed PenGraph is no longer being manufactured. It is available (while supplies last) only from Crystal Computers. For information call either 800/824-9259 or 303/790-2686.

...If your Kaypro PC exhibits an intermittent problem with the display blanking out, the following modifications to the multivideo board will avoid replacing the board: Replace the PAL chip at U66 (81-830) with a "B" revision. Jumper pin 11 of U70 to pin 2 of U68.

...If your PC gives you a keyboard error when warm-booting, check the boot EPROM to see which revision you have. If it is not at least a "K" version, contact your Kaypro dealer for a replacement.

MS-DOS Stuff

One of the nice features of DOS is the use of subdirectories and paths. However, many users have difficulty moving from one subdirectory to another. So ... let's do some "making," "changing," "pathing" and "removing."

Be sure that your prompt contains the current drive and subdirectories. (See Vol. 4, no. 1 and no. 2 [pp\$].)

With your working DOS disk in drive A:, type

```
MD WRITE <return>
MD FILES <return>
```

To check that you have created two new directories, type DIR and you will see them listed.

Now let's get to them. Type CD<space>WRITE. Notice that you are now in the new subdirectory (A:\WRITE). To copy a file to this subdirectory from another drive (B:), stay in this subdirectory and copy from B: to A:.

To change back to the main (root) directory, type CD<space>.. (That's CD with two periods.) You will then see A:\

Now CD to FILES and copy a file to that directory. You have created two new subdirectories. To move from one subdirectory (FILES) to another, type CD\WRITE.

Well, well, the directory changed, didn't it?

Suppose you want to be able to use programs from both areas. That's where PATH comes in.

Type PATH=A:\WRITE;A:\FILES<return>.

Now all files in both areas are available to you no matter what drive you are on or which directory you are in.

If you want to keep a permanent path, such as all your utilities, place them in a subdirectory and place PATH in your AUTOEXEC.BAT file.

To remove a subdirectory, you must first delete all the files in the directory and then go to the main (root) directory and type:

```
RMDIR<space>[subdirectory]<return>.
```

To see the different directories, use the TREE.COM program. If TREE.COM is in your PATH directory, you can call it from anywhere.

Starwares

Last issue we made changes in our existing database which affected the file index. We used Formsort to re-index the file.

We now have a nicely cleaned up and well-ordered file. We can use it for MailMerge or with ReportStar in the order in which we entered data. We can access our file in index (last name) order with DataStar and ReportStar.

But what if we need to see our data in a different order, such as zip code? Or physically re-arrange our file into an order other than as entered?

We'll tackle those tasks this time.

Boot up your computer. Put your InfoStar disk into Drive A and your data disk into Drive B. We'll create a zip code index first.

Remember:
<CR> = press RETURN;
<type the named key>;
enter this data;
^<key> press CTRL and next key.

Task 1: Create a ZIP.DEF file:
Log to the drive containing the .DEF file, then:

(CP/M) PIP ZIP.DEF = NAMES.DEF

(MS-DOS) COPY NAMES.DEF ZIP.DEF

Task 2: Clear the old index field and set a new one for zip code in the ZIP.DEF file:

<drive>FORMGEN ZIP.DEF

Move the cursor to one of the asterisks in the Last Name field and then clear this as an index field: ^K.

Move the cursor to one of the underscores in the Zip code field: ^K. We have now made zip code the indexing field.

Save your revised ZIP.DEF file and exit FORMGEN: ^CB.

Task 3: Create a new index file in zip code order:

First, you must rename your .DTA file:

(CP/M) REN ZIP.DTA = NAMES.DTA

(MS-DOS) REN NAMES.DTA ZIP.DTA

Now, use FORMSORT to generate a zip code index:

<formsort drive>FORMSORT <.dta file
drive>ZIP.DTA/N

When you look at your directory, you will have these files: NAMES.DEF, NAMES.NDX, ZIP.DEF, ZIP.NDX, ZIP.DTA. If you use the system TYPE command to look at the .DTA file, you will see that only the name has changed.

To use your file, make sure you RENAME it to the index you want to use. Then use DataStar as usual.

If you've been following our WordStar by Chiang articles, you've gotten started on WordStar's MailMerge capability. You can use any file created in DataStar as a MailMerge data file. MailMerge reads the .DTA file in original entry order, regardless of any indices you have created.

If you want MailMerge to use your data in another order, you can use FORMSORT to re-write or create a new version (with a new name) of the .DTA file in the desired order.

Let's try that now.

Your file was previously sorted by FORMSORT into Last Name order. Since we now have two indices based on that order, we don't want to re-write the file, but to make a new version in the order we want. If we use the new file, we can print MailMerge documents in this order.

If necessary, rename your .DTA file to ZIP.DTA.

<formsort drive>FORMSORT <zip.dta
drive>ZIP.DTA/D <newfile drive>NEWFILE

When FORMSORT is done, TYPE NEWFILE. The records will display in zip code order.

When you prepare your MailMerge base document, use NEWFILE in the .DF line, and the field names in their DataStar order in the .RV lines.

Put the Newfile variables, surrounded by ampersands ("&") into your document where you want them printed, and you're ready to go.

Kaypro Upgrading

by Gregg Platt - PeopleTalk Associates

TAKING THE DOS PLUNGE

A few weeks ago we received an apologetic letter from a customer who was returning a Bondwell laptop computer. It seemed that he and his boss hadn't seen eye-to-eye on the purchase of another machine. "She told me it was her or the computer," the letter said. "I had to think hard about that for awhile but I finally decided it was cheaper to give up the computer."

Personally, I appreciated the dilemma. After all, my wife HAS been known to mutter something about the difference between men and boys being the price of their toys.

As anyone who has ever purchased a new car knows, there inevitably comes a day when all of the "sensible" arguments in the world won't outweigh the itch to get your hands on the latest, sleekest, and fastest model displayed in the dealer's showroom.

Beware! Like any other epidemic, this bug tends to sneak up on you. Sooner or later the disease will catch and you'll find yourself parading out of the showroom with a new IBM compatible toy in hand.

The bug finally bit me several weeks ago. In spite of my pro-CP/M rhetoric, I found myself being seduced by the HomeBase desktop assistant (which I was previewing for our IBM-compatible users). Without warning I found myself falling in love with the power and flexibility of this product. Here in one easy-to-use package was a full text-oriented database manager (with WordStar style text editor), a multi-function calculator, a complete electronic mail package with built-in autodialer, calendar management program with automated "to do" lists and expense tracking, full DOS Services, PLUS built in alarm clock, built-in file sweep, and screen cut-and-paste all for \$69!

As I played with the program I began to daydream about the ways I could use it and the next thing I knew I was configuring our spare DOS Kaypro for my personal use. In the weeks since, I've gotten more and more immersed in the DOS world.

I hadn't realized how deeply entrenched I'd become 'til someone asked me the other day

how many high-memory utilities I was running and I couldn't count them all!

So, I stopped and checked. There were TEN including my key and printer redefinition programs, SMARTKEY-5 and SMARTPRINT, along with SMARTPATH (all from Software Research Technologies), FLASH (which speeds disk access by about 40%), and a print SPOOLER (both from Software Masters, Inc.), my desktop assistant (HOMEBASE from Amber Systems), the DOS Edit P.D. utility, the UNIFORM disk compatibility software and the UNIDOS CP/M emulator (both from MicroSolutions), and last but not least my ramdisk program!

The fact is that I've become what can only be called a high-memory-aholic. Here I sit with a 640k machine fighting to keep enough memory to run WordStar or Perfect Writer (both of which use less than 64k).

Then came the day when our new IBM-compatible Bondwell laptop was delivered.

Here was a 512k computer weighing a mere 10 pounds with one 720k disk drive, built-in modem and clock, backlighted 80x25 screen with external color monitor port, serial and parallel ports, MS-DOS, and GWBASIC all for \$1595. What a deal!

I just HAD to have one... After all, having this machine as a take-along meant that I could take home -- to work on in the evening -- the same software I was using at the office.

But "the boss" had other ideas. She pointed out that I had used the same argument when I ABSOLUTELY HAD to have my CP/M laptop. I argued that that had been months ago and that since then I'd shifted to the DOS machine at work. Viewed in this light the new machine was practically a necessity. When she offered to leave if I brought home another computer, I started to take the discussion seriously.

Of course, ultimately, logic (and sneakiness) won out and I got my new toy and I'm absolutely in love with it. I'll probably never need another computer as long as I live (which the boss says may not be too long)...

Oops! Guess who just came by and glanced over my shoulder? "AHA!" she said, and stomped off in a huff. I think I've got some fast talkin' to do. See you later...

Sysop's Corner

by Frank Fallon

"How can I make sense out of the alphabet soup directories on the remote systems I call? I can't tell one program from another. I'm confused."

That could be you. I know that's the way I felt a few years ago when I first went on line. I knew how to download, but I didn't know what to download. The local phone company made some money on my initial ignorance, but then I did some reading and caught on pretty quickly.

Again, reading is the key. The messages on a system will give you an idea of the latest programs available and a description of what they do. This may well help you decide whether or not you have any use for a program. Avoid the temptation to download first and read documentation later. You can fill up a lot of disks that way. Recently I went through some of those early disks I had used for downloading. I moved a few, a very few, programs over to the hard disk, but I recovered almost 75 disks, which I then bulk erased. I had obviously downloaded a great many programs I never used.

Useful programs are frequently mentioned in messages and also in magazines and newsletters. Take a look at them and keep notes close by the modem for your next download session.

There is another good source of information available on-line. Norm Gregory, the Sysop of the Seattle "Downspout," takes the time each month to edit a "what's new" listing which is then uploaded to many local RCP/Ms. It contains a description of the latest uploads and gives a good idea of recent uploads that you may find in your area. The file has a name like JULBEST.LQT.

The monthly on-line magazine of the Tampa Bay Kaypro User's Group, "The \$ R / O Read Only," is another good source for the names of good programs. Editor/Sysop Steve Sanders' comments do much to straighten out a confused PD searcher. Look for the file JULY86.MQG, or a similar monthly update.

While on-line you can also find out a great deal of information from the system itself. WHATSNEW, WHAT'S, and LUX are all helpful and should be used on systems where they are available. Enter the command WHAT'S or

WHAT'S NEW, depending on how the sysop has the programs set up, for a listing of the latest programs uploaded since your last visit. You may want to download this to a disk to read later off line at your leisure. Go back in to download the files you want. If you need more information you can always take a look at the documentation. This is very easy if LUX is available and the file is part of a library file, one that has an LBR extension. These LBR files contain a number of squeezed programs within them. Using LUX, a menu driven program, you can read the documentation and download the files individually.

Kaypro News

Kaypro Corporation has enhanced the features of selected Kaypro computers while simultaneously lowering the prices!

The Kaypro 2000's latest improvement, a 28% larger screen, takes less time to read. therefore, faster screen updates are necessary for speed readers. So the Kaypro 2000 now comes with a standard 768K RAM and RAM-disk software. Operating software within RAM is dramatically faster and more energy efficient than continually accessing a disk drive.

Viewing the Kaypro 2000's RAM-operated big screen is such a visual treat that it can almost be considered leisure reading.

The Kaypro 286i Model C uses its enhanced speed to process 30 MB of data from its new hard drive, a 50% increase in storage capacity over the original 20 MB Model C. Model A now retails for \$2495, while the Model C has been reduced to \$3995!

Kaypro Corporation recently introduced a 286 PC Card that, when exchanged for the 8088 card, enables the Kaypro PC to operate IBM PC/AT software. The "brain" of the 286 PC Card is an Intel 80286 CPU that utilizes the Kaypro PC's 16-bit potential. A trade-in allowance of \$266 on your old 8088 card reduces the retail price of the 286 PC Card to \$799, or \$1065 without the trade-in.

Kaypro now offers MS-DOS 3.2 with all of its IBM compatible machines.

Some of the more notable improvements over previous versions include the ability to recognize and operate both 5.25- and 3.5-inch diskettes, and it provides efficient control over networking systems.

Best of KUGBB

Several I/O ports are involved in disk drive accesses. The system port (1CH, 28 decimal) controls (for '83 Kaypros) drive motor on/off, side select if using double sided drives, and drive select. Bit 0 selects drive A, bit 1 selects Drive B, bit 2 selects the side, bit 5 selects density, and bit 6 turns motor on/off. The actual floppy disk controller (FDC) chip has 4 registers that are at port 10, 11, 12, and 13 hex. 10 is command/status, 11 is track, 12 is sector and 13 is data in/out. In MBasic, as these are I/O ports and not memory locations, (although on some machines it makes no difference) you must use the INP and OUTP statements. Say you want to turn the motors on. Use something like:

```
10 BITPORT = INP(28)
20 BITPORT = BITPORT AND 1011111B
30 OUTP(28) = BITPORT
```

To get the drive to move to a track, put the track# into port# 11H, 10H (the SEEK cmd) into the cmd register which is 10H and r/w head moves out to the track.
---Michael Christensen

A group of 100 writers from across the country have started a consortium of people who are able to handle editorial projects using the various electronic mailbox facilities. If interested, write to John B. Donovan, President, Senior Corporate Writers Group, Suite 247, 12 Chatsworth Ave., Larchmont, NY 10538 (914/834-4877). I'm former chief speech writer for the chairman of Chemical Bank and am particularly interested in advertising, marketing and public relations people. Please mention your areas of specialty and the industries you've done work for.

---John B. Donovan

Adventure Tip

If you continue playing at 450 and gradually (mysteriously) gain more points until the "cave closes," you are nearing the end. The end-game is based upon getting out of the cylindrical room where you end up as the cave closes. If you find yourself there, the operative hints would be:

- There's no way (direction) out.
 - You aren't carrying anything.
 - There is a "way" (method) out.
- Bob Berry

Vendors

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from
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Vienna, VA 22180

COMPUTER POWER MODULES
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Kirkland, WA 98033

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UNINTERRUPTIBLE POWER SYSTEMS
from
Best Power Technology, Inc.
PO Box 280
Necedah, WI 54646

The Vendors column is not advertising. We list as many vendors as space allows. These listings in no way represent the endorsement of KUG, Inc.

An Invitation to Join the Word Processing Users' Group

If you are using your computer to type reports, write a book, or do any other type of writing, you should think about becoming a member of W/PUG. Our newsletter, *SCROLL*, contains articles such as:

- * *Reviews of the latest W/P software*
- * *Tutorials on using W/P software*
- * *Tips on using the operating system*
- * *Columns for business, professional and educational writing*
- * *Glossary of terms in each issue*
- * *Vendor column of W/P suppliers*
- * *Box 144, mail information exchange*
- * *Listings of local W/P User Groups.*

We operate our own national Bulletin Board system for writers & W/P users and the best of *SCROLL*-BB is printed in each newsletter.

Annual membership fee of \$15.00 (U.S.) must be accompanied by a letter stating your name, address, telephone number, computer model, printer model and the word processing software you are using.

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FLOPPY DISK BOOK Kaypro Power

After spending one year writing the most thorough book on CP/M Kaypro computers, my publisher has decided not to print it. Rather than let all the information go to waste I am selling the book on floppy disks. The first ever!

If you want to read how to get the most out of your Kaypro, how to use CP/M, how to hot-rod your Kaypro, how to customize and use Wordstar, how to use your Kaypro for communications, how to get free software, plus descriptions of well over 100 programs, this is the book for you.

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KUG Rates Going UP !

Starting with the next issue (Sept-Oct) the KUG membership fee will be raised as follows:

U.S. & Domestic\$25.00
Canada & Mexico\$30.00 (U.S. FUNDS)
International\$35.00 (U.S. FUNDS)

However, you can save \$5.00 if we receive your renewal on or before August 15, 1986.

Send us your name, address and ID#, along with a check for \$20.00 (U.S. & Domestic) or \$25.00 U.S. (Canada & Mexico) or \$30.00 U.S. (International).

Let us know whether it is a renewal or an extension of your current membership.

Of course you can still take advantage of the two-year renewal Bonus Library Disk and save up to 30%. Just let us know which FREE disk you would like to receive.

Send your check for \$20.00 (U.S.A.) for a one-year renewal (or \$40.00 for 2 years) to KUG SAVINGS, Box 100, Malverne, NY 11565.

Do it now and SAVE.

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KUG's Bulletin Board on Long Island is available to all who wish to use it. Again, this is provided as a service and KUG cannot be held responsible for any faults in the programs available. KUG's 88 phone number is (516) 747-8308. CompuServe's Kaypro Forum (KUG SIG) is GO KAYPRO.

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DATESTAMPER™

... has the answers

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Please see Page 23 for full details.

